

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

| | | | |
|-------------------|---|-------------------------|-------------------|
| CONTRACTOR | CONTRACT NO./TASK NO. | JOB ORDER NUMBER | APPROP. FY |
| QSS Group, Inc. | NAS5- 99124 TASK NO. 186 AMENDMENT | 454-218-80-20-89 | 00 |

TASK TITLE: (NTE 80 characters; include Project name)

TDRS H external independent review and evaluation

APPROVALS: (Type or print name and sign)

| | | | | |
|---|---|-----------------|------------------------|--------------|
| ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR) | DATE | ORG CODE | MAIL CODE | PHONE |
| Anthony B. Comberiate <i>[Signature]</i> | 12/15/99 | 454 | 454 | 301-286-8520 |
| BRANCH HEAD | DATE | CODE | PHONE | |
| Anthony B. Comberiate <i>[Signature]</i> | 12/15/99 | 454 454 | 301-286-8520 | |
| CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) | DATE | CODE | PHONE | |
| Robert S. Lebair, Jr. <i>[Signature]</i> Deborah A. Clark | 12/16/99 | 560 | 301-286-6588 | |
| FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE? (If YES, NEED CODE 303 CONCURRENCE NEXT BLOCK) | CONTRACTING OFFICER'S QUALITY REP. | | DESIGNATED FAM: | |
| (X) NO () YES | Larry Moore | | | |

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)

C.O. Requested Quote on:

Date: DEC 17 1999

Contractor will develop specification or statement of work under this task for a future procuremer (X) NO () YES
 Flight hardware will be shipped to GSFC for testing prior to final delivery. (x) NO () YES (X) N/A
 Government Furnished Property/Facilities: (X) NO () YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)
 Onsite Performance: () NO (X) YES If yes: () TOTAL (X) PARTIAL
 If partial, indicate onsite work in SOW by asterisk (*)

Surveillance Plan Attached: (X) NO () YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be December 17, 1999.

INCENTIVE FEE STRUCTURE

(check one)

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

| | <u>X</u> No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|-----------|----------------|-------|-------|-------|-------|
| Cost | 10% | 50% | 25% | 25% | % |
| Schedule | 15% | 25% | 25% | 50% | % |
| Technical | 75% | 25% | 50% | 25% | % |

(To be completed by Contracting Officer)

The target cost of this task order is \$ 215,339.

The target fee of this task order is \$ 518.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 215,857.

The maximum fee is \$ 757.

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THE TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

[Signature]
SIGNATURE OF CONTRACTING OFFICER

4/6/00
DATE

ELIZABETH J. AUSTIN
CONTRACTING OFFICER
TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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|------------------------|-----------------------|------------|-----------|
| QSS Group, Inc. | NAS5- 99124 | 186 | |

Applicable paragraphs from contract Statement of Work: **FUNCTION 2F****STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

This effort provides for the external independent review and evaluation of TDRS H,I,J and its applications and extensions. This effort covers the execution, support and associated activities required to complete the external review in accordance with the launch schedule, document and deliver a final report, summarize and present specific findings to NASA Senior Management, provide expert advice to the Project on performance verification, and provide expert advice to the Project on the use of TDRS and TDRS technologies in advanced applications.

In support of the above, the contractor shall perform the following tasks:

*Task 1: The contractor shall complete the evaluation of the TDRS H Program Elements:

- | | |
|---|--|
| 1) Performance of the spacecraft | 4) Ground Network and Deep Space Network |
| 2) Modifications to the White Sands Complex | 5) Operations |
| 3) Atlas IIA Launch Vehicle | |

Task 2: The contractor shall attend the following reviews and provide assessments of the validation of the Program's ability to achieve the requirements and objectives. The contractor shall be required to travel to attend briefings and execute ancillary investigations.

- | | |
|----------------------------|--|
| 1) Pre-Ship Review | 4) Final Integrated System Test Review |
| 2) Flight Readiness Review | 5) Mission Readiness Review |
| 3) WSC Readiness Review | 6) Launch Readiness Review |

*Task 3: The contractor shall provide expert assistance to the project specifically in the area of performance verification and advanced application of TDRS technologies. The contractor shall complete preparation and deliver a completed manuscript for AIAA publication. The contractor shall prepare a presentation for an AIAA conference.

The contractor shall prepare and submit a monthly report summarizing accomplishments and planned activities for each task above. The contractor shall prepare and deliver a final report for all work under Tasks 1 and 3.

PERFORMANCE SPECIFICATIONS:

As a minimum, the MRR presentation summary shall include major findings, launch constraints, risk identification, risk assessment, recommended risk mitigation actions and the recommendations. All reports shall be clearly summarized and analyzed with rationale included.

APPLICABLE DOCUMENTS:

External Independent Readiness Review Charter.

TASK END DATE: June 30, 2000**MILESTONES/DELIVERABLES AND DATES:**

Trip reports shall be delivered within one week after each review specified in item 2 except for the GSFC Mission Readiness Review.

| | |
|--|------------------------------|
| Flight Readiness Review Trip Report: | January 31, 2000 * |
| Final Integrated System Test Review Trip Report: | February 29, 2000 * |
| WSC Readiness Review Trip Report: | January 31, 2000 * |
| Pre-Ship Review Trip Report: | March 31, 2000 * |
| Launch Readiness Review Trip Report: | May 30, 2000 * |
| Oral Presentation to GSFC Mission Readiness Review | April 30, 2000 * |
| Final Report | June 30, 2000 |
| Monthly Reports | 15 days after close of month |
| Manuscript for AIAA Publication | February 29, 2000 |
| Presentation for AIAA Conference | April 30, 2000 |

*Dates are subject to change based upon launch schedule.

PERFORMANCE STANDARDS:

| | |
|------------|--|
| Schedule: | On-time delivery/completion of the above milestones/deliverables |
| Technical: | ATR's acceptance of the above |

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Anthony B. Comberiate, building 12, room C004F

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| QSS Group, Inc. | NASS- 99124 | TASK NO. 186 | AMENDMENT | | | | | | | | | | | | | | | | | | | | |
| Applicable paragraphs from contract Statement of Work: FUNCTION 2F | | | | | | | | | | | | | | | | | | | | | | | |
| STATEMENT OF WORK: (Continue on blank paper if additional space is required) | | | | | | | | | | | | | | | | | | | | | | | |
| <p>This effort provides for the external independent review and evaluation of TDRS H,I,J and its applications and extensions. This effort covers the execution, support and associated activities required to complete the external review in accordance with the launch schedule, document and deliver a final report, summarize and present specific findings to NASA Senior Management, provide expert advice to the Project on performance verification, and provide expert advice to the Project on the use of TDRS and TDRS technologies in advanced applications.</p> <p>In support of the above, the contractor shall perform the following tasks:</p> <p>*Task 1: The contractor shall complete the evaluation of the TDRS H Program Elements:</p> <table><tbody><tr><td>1) Performance of the spacecraft</td><td>4) Ground Network and Deep Space Network</td></tr><tr><td>2) Modifications to the White Sands Complex</td><td>5) Operations</td></tr><tr><td>3) Atlas IIA Launch Vehicle</td><td></td></tr></tbody></table> <p>Task 2: The contractor shall attend the following reviews and provide assessments of the validation of the Program's ability to achieve the requirements and objectives. The contractor shall be required to travel to attend briefings and execute ancillary investigations.</p> <table><tbody><tr><td>1) Pre-Ship Review</td><td>4) Final Integrated System Test Review</td></tr><tr><td>2) Flight Readiness Review</td><td>5) Mission Readiness Review</td></tr><tr><td>3) WSC Readiness Review</td><td>6) Launch Readiness Review</td></tr></tbody></table> <p>*Task 3: The contractor shall provide expert assistance to the project specifically in the area of performance verification and advanced application of TDRS technologies. The contractor shall complete preparation and deliver a completed manuscript for AIAA publication. The contractor shall prepare a presentation for an AIAA conference.</p> <p>The contractor shall prepare and submit a monthly report summarizing accomplishments and planned activities for each task above. The contractor shall prepare and deliver a final report for all work under Tasks 1 and 3.</p> | | | | 1) Performance of the spacecraft | 4) Ground Network and Deep Space Network | 2) Modifications to the White Sands Complex | 5) Operations | 3) Atlas IIA Launch Vehicle | | 1) Pre-Ship Review | 4) Final Integrated System Test Review | 2) Flight Readiness Review | 5) Mission Readiness Review | 3) WSC Readiness Review | 6) Launch Readiness Review | | | | | | | | |
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| PERFORMANCE SPECIFICATIONS: As a minimum, the MRR presentation summary shall include major findings, launch constraints, risk identification, risk assessment, recommended risk mitigation actions and the recommendations. All reports shall be clearly summarized and analyzed with rationale included. | | | | | | | | | | | | | | | | | | | | | | | |
| APPLICABLE DOCUMENTS: External Independent Readiness Review Charter. | | | | | | | | | | | | | | | | | | | | | | | |
| TASK END DATE: June 30, 2000 | | | | | | | | | | | | | | | | | | | | | | | |
| MILESTONES/DELIVERABLES AND DATES: Informal summary reports shall be delivered within one week after each review specified in item 2 except for the GSFC Mission Readiness Review. | | | | | | | | | | | | | | | | | | | | | | | |
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| Flight Readiness Review Report | January 31, 2000 | | | | | | | | | | | | | | | | | | | | | | |
| Final Integrated System Test Review Report | February 29, 2000 | | | | | | | | | | | | | | | | | | | | | | |
| WSC Readiness Review Report | January 31, 2000 | | | | | | | | | | | | | | | | | | | | | | |
| Pre-Ship Review Report | March 31, 2000 | | | | | | | | | | | | | | | | | | | | | | |
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| Monthly Reports | 15 days after close of month | | | | | | | | | | | | | | | | | | | | | | |
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| FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM): Anthony B. Comberiate, building 12, room C004F | | | | | | | | | | | | | | | | | | | | | | | |